OIPE

RAW SEQUENCE LISTING   DATE: 07/16/2002
PATENT APPLICATION: **US/09/903,396A**   TIME: 16:16:19

Input Set : **A:\PTO.DC.txt**
Output Set: **N:\CRF3\07162002\I903396A.raw**

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   4 <110> APPLICANT: Allen, Keith D.
   6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
   7        GLUCOCORTICOID-INDUCED RECEPTOR GENE DISRUPTIONS
  10 <130> FILE REFERENCE: R-359
  12 <140> CURRENT APPLICATION NUMBER: US 09/903,396A
C-->13 <141> CURRENT FILING DATE: 2002-06-25
  15 <150> PRIOR APPLICATION NUMBER: US 60/217,179
  16 <151> PRIOR FILING DATE: 2000-07-10
  18 <150> PRIOR APPLICATION NUMBER: US 60/252,299
  19 <151> PRIOR FILING DATE: 2000-11-20
  21 <150> PRIOR APPLICATION NUMBER: US 60/262,205
  22 <151> PRIOR FILING DATE: 2001-01-16
  24 <160> NUMBER OF SEQ ID NOS: 4
  26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  28 <210> SEQ ID NO: 1
  29 <211> LENGTH: 1973
  30 <212> TYPE: DNA
  31 <213> ORGANISM: Mus musculus
  33 <400> SEQUENCE: 1
  34 catgaaggtt cctcctgtcc tgcttctctt tcttctgtcc tcagtgcgag ctactgagca 60
  35 accgcaggtc gtcactgagc atcccagcat ggaggcagcc ctgaccgggc ccaacgcctc 120
  36 ctcgcacttc tgggccaact acactttctc tgactggcag aacttcgtgg gcaggagacg 180
  37 ttatggggcc gagtcccaga accccacggt gaaagcactg ctcatcgtgg cctactcatt 240
  38 caccatcgtc ttctcgctct tcggtaatgt cctggtctgt catgtcatct tcaagaacca 300
  39 gcgcatgcac tcggccacca gcctcttcat tgtcaacctg gcagtggcgg acatcatgat 360
  40 cacattgctc aacacgccct tcactttggt ccgctttgtg aacagcacat gggtgtttgg 420
  41 gaagggcatg tgtcatgtca gtcgctttgc tcagtactgt tctctacatg tctcagcact 480
  42 gactctgaca gctatcgcag tggaccgcca ccaggtcatc atgcatccac tgaagcctcg 540
  43 gatctccatc accaagggtg tcatatatat tgctgtcatc tgggtcatgg ctaccttctt 600
  44 ctctctgcca catgccatct gccagaaact gtttaccttc aagtacagtg aggacattgt 660
  45 gcgctccctc tgcctgccgg acttcccgga gccagctgac ctcttctgga gtatctggga 720
  46 cctggccacc ttcatcctgc tctacctact tccactcttc attatctcag tggcctatgc 780
  47 tcgtgtggcc aagaagctgt ggctctgtaa caccattggc gacgtgacca cagagcagta 840
  48 cctcgccctg cgacgcaaga agaagaccac cgtgaagatg ctggtgcttg tggtagtcct 900
  49 ctttgccctc tgctggttcc ctctcaactg ctatgtcctc ctcttgtcca gcaaggccat 960
  50 ccacaccaac aatgccctct actttgcctt ccactggttt gccatgagca gtacttgtta 1020
  51 taacccccttc atctactgct ggctcaatga gaactttagg gttgagctta aggcattgct 1080
  52 gagcatgtgc caaaggccac ccaagccgca ggaagacagg ctaccctccc cagttccttc 1140
  53 cttcagggtg gcatggacag agaagagcca tggtcggagg gctccactac ctaatcacca 1200
  54 cttgccctct tcccagatcc agtctgggaa gacagatctg tcatctgtgg aacccgttgt 1260
  55 ggccatgagt tagggaaagc tggaagttgg tggggagggt tctttcctc tcacaattga 1320
  56 ccagacacta acagagttgg aaagtaacac agaagcagtg agatgcttgg gttcctagga 1380
  57 acctgtccag ccccatctga tttgcaaact ttctagaaga tgccatgagg tggtgtgtgt 1440
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58 agatctttga gcaagagctc tggaaaccac ctcagcttca acagaggctg gtccagtcaa 1500
59 ccacctccaa ttgtgtagca tctgccacct tgcccttcct actgctgagc aaccacaggg 1560
60 ggacttgagc catactattg gtgggcctgc cccacatgct cagaaaagaa caggcacaaa 1620
61 ggctttctga agtcattgga acaggaataa tcacacagct tcagtgacct tggctctatc 1680
62 catgaccaga caggacccat tttggcttct taaaaacaaa gagaaattag tattgccact 1740
63 ttgaaaagtt cagaaaagta aagaaatgag ttcagccctc aatttgtaaa aaaaggaaaa 1800
64 aagaaaaaaa aaagaaaaag aaagaaaaaa gcctgttaat atgctgtaaa tttatctgta 1860
65 gctttgcctt ctgtgtgtgt acatttgtac ttttaaaatc ctgaactaca cgtgtccatg 1920
66 tagattgtaa taattagcaa gaaactggaa tatatcagag tattattgaa ttc          1973
68 <210> SEQ ID NO: 2
69 <211> LENGTH: 423
70 <212> TYPE: PRT
71 <213> ORGANISM: Mus musculus
73 <400> SEQUENCE: 2
74 Met Lys Val Pro Pro Val Leu Leu Leu Phe Leu Leu Ser Ser Val Arg
75  1               5                   10                  15
76 Ala Thr Glu Gln Pro Gln Val Val Thr Glu His Pro Ser Met Glu Ala
77              20                  25                  30
78 Ala Leu Thr Gly Pro Asn Ala Ser Ser His Phe Trp Ala Asn Tyr Thr
79          35                  40                  45
80 Phe Ser Asp Trp Gln Asn Phe Val Gly Arg Arg Arg Tyr Gly Ala Glu
81      50                  55                  60
82 Ser Gln Asn Pro Thr Val Lys Ala Leu Leu Ile Val Ala Tyr Ser Phe
83 65                  70                  75                  80
84 Thr Ile Val Phe Ser Leu Phe Gly Asn Val Leu Val Cys His Val Ile
85                  85                  90                  95
86 Phe Lys Asn Gln Arg Met His Ser Ala Thr Ser Leu Phe Ile Val Asn
87              100                 105                 110
88 Leu Ala Val Ala Asp Ile Met Ile Thr Leu Leu Asn Thr Pro Phe Thr
89          115                 120                 125
90 Leu Val Arg Phe Val Asn Ser Thr Trp Val Phe Gly Lys Gly Met Cys
91      130                 135                 140
92 His Val Ser Arg Phe Ala Gln Tyr Cys Ser Leu His Val Ser Ala Leu
93 145                 150                 155                 160
94 Thr Leu Thr Ala Ile Ala Val Asp Arg His Gln Val Ile Met His Pro
95                  165                 170                 175
96 Leu Lys Pro Arg Ile Ser Ile Thr Lys Gly Val Ile Tyr Ile Ala Val
97              180                 185                 190
98 Ile Trp Val Met Ala Thr Phe Phe Ser Leu Pro His Ala Ile Cys Gln
99          195                 200                 205
100 Lys Leu Phe Thr Phe Lys Tyr Ser Glu Asp Ile Val Arg Ser Leu Cys
101     210                 215                 220
102 Leu Pro Asp Phe Pro Glu Pro Ala Asp Leu Phe Trp Lys Tyr Leu Asp
103 225                 230                 235                 240
104 Leu Ala Thr Phe Ile Leu Leu Tyr Leu Leu Pro Leu Phe Ile Ile Ser
105                 245                 250                 255
106 Val Ala Tyr Ala Arg Val Ala Lys Lys Leu Trp Leu Cys Asn Thr Ile
107             260                 265                 270
108 Gly Asp Val Thr Thr Glu Gln Tyr Leu Ala Leu Arg Arg Lys Lys Lys
```

```
109          275                    280                    285
110 Thr Thr Val Lys Met Leu Val Leu Val Val Val Leu Phe Ala Leu Cys
111      290                    295                    300
112 Trp Phe Pro Leu Asn Cys Tyr Val Leu Leu Leu Ser Ser Lys Ala Ile
113 305                    310                    315                320
114 His Thr Asn Asn Ala Leu Tyr Phe Ala Phe His Trp Phe Ala Met Ser
115              325                    330                    335
116 Ser Thr Cys Tyr Asn Pro Phe Ile Tyr Cys Trp Leu Asn Glu Asn Phe
117          340                    345                    350
118 Arg Val Glu Leu Lys Ala Leu Leu Ser Met Cys Gln Arg Pro Pro Lys
119      355                    360                    365
120 Pro Gln Glu Asp Arg Leu Pro Ser Pro Val Pro Ser Phe Arg Val Ala
121      370                    375                    380
122 Trp Thr Glu Lys Ser His Gly Arg Arg Ala Pro Leu Pro Asn His His
123 385                    390                    395                400
124 Leu Pro Ser Ser Gln Ile Gln Ser Gly Lys Thr Asp Leu Ser Ser Val
125              405                    410                    415
126 Glu Pro Val Val Ala Met Ser
127              420
130 <210> SEQ ID NO: 3
131 <211> LENGTH: 200
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Targeting Vector
138 <400> SEQUENCE: 3
139 ctggcacggt ccaggttcac tcggaggccc gggcttcctc tgtgccccgt gcccctcgct 60
140 ccctggctcc ctctgtggtg tggactcctc tagcccggtg cgctcagccc ctcgcaccca 120
141 gcctccaggc acagagcccg gcagggagct cagcccttgt gcctagagct gcagtggctg 180
142 gacatgaagg tttctcctgt                                            200
144 <210> SEQ ID NO: 4
145 <211> LENGTH: 200
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Targeting Vector
152 <400> SEQUENCE: 4
153 cagcactgac tctgacagct atcgcagtgg accgccacca ggtgagagca cctgtcccca 60
154 gcagcatgct cccatctccg tctatgcctg gctggctggt gggaatactg ccaccacggt 120
155 ctgtagggaa tactctcagg acagtgactc attcagtccc gctgacagcg tgtgtgcttg 180
156 cctccttgtt gatcaatttg                                            200
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/903,396A**

DATE: 07/16/2002
TIME: 16:16:21

Input Set : **A:\PTO.DC.txt**
Output Set: **N:\CRF3\07162002\I903396A.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

RAW SEQUENCE LISTING   DATE: 07/10/2002
PATENT APPLICATION: US/09/903,396A   TIME: 14:50:20

Input Set : A:\SEQLIST 359 for submission.txt
Output Set: N:\CRF3\07102002\I903396A.raw

```
    4 <110> APPLICANT: Allen, Keith D.
    6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
    7       GLUCOCORTICOID-INDUCED RECEPTOR GENE DISRUPTIONS
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   22 <151> PRIOR FILING DATE: 2001-01-16
   24 <160> NUMBER OF SEQ ID NOS: 4
   26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

ERRORED SEQUENCES

```
  144 <210> SEQ ID NO: 4
  145 <211> LENGTH: 200
  146 <212> TYPE: DNA
  147 <213> ORGANISM: Artificial Sequence
  149 <220> FEATURE:
  150 <223> OTHER INFORMATION: Targeting Vector
  152 <400> SEQUENCE: 4
  153 cagcactgac tctgacagct atcgcagtgg accgccacca ggtgagagca cctgtcccca 60
  154 gcagcatgct cccatctccg tctatgcctg gctggctggt gggaatactg ccaccacggt 120
  155 ctgtagggaa tactctcagg acagtgactc attcagtccc gctgacagcg tgtgtgcttg 180
  156 cctccttgtt gatcaatttg                                          200
E--> 157 (1)   delete
```

VERIFICATION SUMMARY   DATE: 07/10/2002
PATENT APPLICATION: **US/09/903,396A**   TIME: 14:50:21

Input Set : **A:\SEQLIST 359 for submission.txt**
Output Set: **N:\CRF3\07102002\I903396A.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:157 M:254 E: No. of Bases conflict, this line has no nucleotides.

Serial Number: _CY/9C3,396,7_

CRF Processing Date: _7/10/02_
Edited by: _DC_
Verified by: _DC_ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95